

## Nilit FRIANYL B63 TF-GV 1520 Nylon 6 for injection molding, 15% PTFE lubricated, 20% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Nylon 6 for injection molding. Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nilit-FRIANYL-B63-TF-GV-1520-Nylon-6-for-injection-molding-15-PTFE-lubricated-20-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-TF-GV-1520-Nylon-6-for-injection-molding-15-PTFE-lubricated-20-glass-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.70 - 1.7 %	0.70 - 1.7 %	ISO 62
Water Absorption at Saturation	5.0 - 6.0 %	5.0 - 6.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0070 - 0.015 cm/cm	0.0070 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	140 MPa	20300 psi	ISO 2039-1
Tensile Strength at Break	130 MPa	18900 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	6.00 GPa	870 ksi	ISO 527
Flexural Strength	175 MPa	25400 psi	ISO 178
Flexural Modulus	5.40 GPa	783 ksi	ISO 178
Charpy Impact Unnotched	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	DIN 53453
	4.10 J/cm <sup>2</sup> @Temperature -40.0 °C	19.5 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	145 °C	293 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	500 V	500 V	CTI 100; IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

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